Abstract of the Disclosure

An autoclavable elctrochemical cell which may be used in an implantable medical device. The anode active material is lithium or other material from groups IA and IIA of the Periodic Table and having a melting point greater than about 150 degrees C. The cathode active material is silver vanadium oxide or other metal oxide or carbon monoflouride. The solvent for the electrolyte has a boiling point greater than about 100 degrees C. and a dielectric constant greater than about 5 so that the cell may be dimensionally and chemically stable during repeated exposures of about one hour each to the autoclaving temperatures.